

Example:

$$M_{\text{H}_2\text{O}} = 18.01528 \text{ g/mol}$$

$$p_d = 2.93 \text{ kPa}$$

$$RH = 37.5 \%$$

$$M_{\text{air}} = 28.96559 \text{ g/mol}$$

$$p_{\text{atmos}} = 96.71 \text{ kPa}$$

$$H = \frac{1000 \cdot 18.01528 \cdot 2.93 \cdot 37.5 \cdot 0.01}{28.96559 \cdot (96.71 - 2.93 \cdot 37.5 \cdot 0.01)} = 7.14741 \text{ g H}_2\text{O vapor/kg dry air}$$

(2) Use the following equation to correct measured concentrations to a reference condition of 10.71 grams H₂O vapor per kilogram of dry air for the FTP, US06, LA-92, SC03, and HFET test cycles:

$$x_{\text{NOxdexcor}} = x_{\text{NOxdexh}} \cdot \frac{H_s}{1 - 0.0329 \cdot (H - 10.71)}$$

Eq. 1066.615-2